



VOLUNTARY AMENDMENT ACCOMPANYING THE DEMAND FOR INTERNATIONAL  
PRELIMINARY EXAMINATION, SUBMISSION DATE OF THE DEMAND JUNE  
8, 1994

CLAIMS

1. A portable communicator provided with:

a portable housing;  
wireless communication means provided in said housing  
and wirelessly connected to a public communication channel  
for transmitting or receiving via said public communication  
channel; and

a portable computer provided in said housing for  
directing control command to said wireless communication  
means, entering data via said wireless communication means  
through said public communication channel, or transmitting  
data via said wireless communication means through said  
public communication channel, in which

said portable computer is provided with:

pen input means able to enter character or drawing  
information by operating a pen;

conversion means for converting the character  
information entered by said pen input means into a specified  
code;

designation means for designating that the  
information entered by said pen input means is a facsimile  
number; and

transmission control means for transmitting the  
character or drawing information entered by said pen input

means or the code converted by said conversion means, based on the facsimile number of an addressee designated by said designation means.

2. The portable communicator according to claim 1 in which said portable computer is further provided with:

display means for displaying the character information entered by said pen input means; and

display control means for compressing the previously entered characters if the number of characters to be displayed on said display means exceeds the predetermined number of characters and displaying a newly entered character in an uncompressed condition.

3. A portable communicator provided with:

a portable housing;

wireless communication means provided in said housing and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel; and

a portable computer provided in said housing for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel or transmitting data via said wireless communication means to said public communication channel, in which

said portable computer is provided with update means for receiving and updating the latest operation program, data table or map information from a main control unit connected

via said wireless communication means, wherein  
the transmission of data updated by said update means is  
incorporated in ordinary communication.

4. A portable communicator provided with:

a portable housing;

wireless communication means provided in said housing  
and wirelessly connected to a public communication channel  
for transmitting or receiving via said public communication  
channel; and

a portable computer provided in said housing for  
directing control command to said wireless communication  
means, entering data via said wireless communication means  
through said public communication channel, or transmitting  
data via said wireless communication means through said  
public communication channel, in which

said portable computer is provided with:

selection means for selecting payment process,  
current deposit process, ordinary deposit process or time  
deposit process at a financial agency;

input means for entering data regarding said  
processes;

process execution means for exchanging data via  
said wireless communication means with a financial agency  
center and executing the process selected by said selection  
means, based on the data entered by said input means; and

print means for printing on a passbook the result  
of the process executed by said process execution means.

5. A portable communicator provided with:

a portable housing;

a wireless communication means provided in said housing and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel;

call means for making a call via said wireless communication means; and

a portable computer provided in said housing for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means through said public communication channel, in which

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said portable computer is provided with:

position coordinate data input means for entering the position coordinate data indicating the current position from a GPS user unit held in said housing or provided outside said housing; and

transmission control means for transmitting the position coordinate data indicating the current position entered by said position coordinate data input means during the call made by said call means when communication is made via said wireless communication means.

6. The portable communicator according to claim 5 in which said transmission control means transmits with voice the feature of the vicinity of the current position.

7. The portable communicator according to claim 5 in which said transmission control means transmits the map of the vicinity of the current position via facsimile.

8. A portable communicator provided with:

a portable housing;

wireless communication means provided in said housing and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel; and

a portable computer provided in said housing for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means to said public communication channel, in which

said portable computer is provided with:

position coordinate data input means for entering the position coordinate data from a GPS user unit held in said housing or provided outside said housing;

feature extraction means for retrieving pre-stored map information based on the position coordinate data of said position coordinate data input means and extracting the feature of the vicinity of the current position from the map information corresponding to the position coordinate data; and

transmission control means for converting the feature extracted by said feature extraction means into voice

and transmitting via telephone through said wireless communication means.

9. A portable communicator provided with:

a portable housing;

wireless communication means provided in said housing and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel; and

a portable computer provided in said housing for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means through said public communication channel, in which

said portable computer is provided with:

position coordinate data input means for entering position coordinate data from a GPS user unit held in said housing or provided outside said housing; and

selection means for selecting the transmission number of the addressee nearest to the current position from a plurality of individuals, companies or official agencies providing specified service, based on the position coordinate data of said position coordinate data input means,

such that the addressee selected by said selection means can be communicated with.

10. A portable communicator provided with:

a portable housing;

wireless communication means provided in said housing and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel; and

a portable computer provided in said housing for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means through said public communication channel, in which

said portable computer is provided with:

position coordinate data input means for entering position coordinate data from a GPS user unit held in said housing or provided outside said housing; and

selection means for retrieving specified map information and selecting the transmission number of the addressee nearest to the current position on map from a plurality of individuals, companies or official agencies providing specified service, based on the position coordinate data of said position coordinate data input means,

such that the addressee selected by said selection means can be communicated with.

11. A portable communicator that can wirelessly communicate with another wireless communication network, provided with

a portable housing;

wireless communication means provided in said housing

and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel;

connection specification memory means provided in said housing for storing electric wave form, frequencies, protocol or other connection specification for linkage to a predetermined wireless communication network;

communication control means provided in said housing for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means through said public communication channel; and

connection specification signal output means provided in said housing for transmitting a signal regarding connection specification to said wireless communication means or said communication control means, based on the storage content of said connection specification memory means.

12. A portable communicator that can wirelessly communicate with another wireless communication network, provided with:

a portable housing;

wireless communication means provided in said housing and wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel; and

a portable computer provided in said housing for

directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means through said public communication channel, in which

    said portable computer is provided with:

        memory means for storing predetermined applicable service content;

        service selection means for selecting a specified service from the content of service stored in said memory means; and

        communication control means for accessing the base station of wireless telephone linkable by said wireless communication means and wirelessly communicating via said wireless communication means according to the service selected by said service selection means.

13. The portable communicator according to claim 12 in which said service selection means determines electric waves for use from the order of priority determined based on the content of service or service fee.

14. The portable communicator according to claim 12 or 13 in which said communication control means is provided with determination means for determining from the electric wave form the wireless communication network in which said portable communication is for use, wherein

    the telephone number of the addressee is determined based on determination of said determination means.

15. A portable communicator provided with:  
wireless communication means wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel;

a portable computer for directing control command to said wireless communication means, entering data via said wireless communication means through said public communication channel, or transmitting data via said wireless communication means through said public communication channel; and

a housing for holding said wireless communication means combined with said portable computer, in which

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said portable computer is provided with,

image data base for storing a plurality of prepared image information regarding people's countenance;

image detection means for detecting image;

image retrieval means for retrieving from said image data base the information regarding the people's countenance of the image similar to the image detected by said image detection means; and

data transmitting and receiving means for transmitting and receiving data via said wireless communication means, based on the signal corresponding to the image information regarding substantially similar people's countenance.

16. A communication system composed of a center unit and a terminal unit that can wirelessly communicate with said

center unit, in which

    said terminal unit is provided with:

        instruction input means for instructing said center unit to provide a place which a user of said terminal unit has to drop in;

        communication means for transmitting to said center unit the instruction from said instruction input means and the identification information by which the terminal unit or the user of said terminal unit is identified, and for receiving transmission from said center unit; and

        display means for displaying the information received via said communication means, and

    said center unit is provided with:

        set memory means for storing the information of route through places to drop in and the map information indicating said route;

        retrieval means for retrieving the route information and the map information corresponding to the identification information from said set memory means, in response to receipt from said terminal unit of the instruction of said place to drop in and of the identification information; and

        transmission means for transmitting to said terminal unit the route information and the map information retrieved by said retrieval means for display on said display means of said terminal unit.

17. The communication system according to claim 16 in

which said route information includes the information indicating time to drop in respective places.

18. The communication system according to claim 16 or 17 in which said route information includes the information of temporary waiting or parking places.

19. A communication system composed of a center unit and a terminal unit that can wirelessly communicate with said center unit, in which

    said terminal unit is provided with:

        input means for entering a plurality of places which a user of said terminal unit has to drop in;

        communication means for transmitting to said center unit the information entered by said input means and receiving transmission from said center unit; and

        display means for displaying the information received via said communication means, and

    said center unit is provided with:

        map information memory means for storing map information;

        route set means for setting a route for efficiently traveling places in response to receipt of the information of a plurality of places to drop in from said terminal unit;

        retrieval means for retrieving the map information corresponding to the route set by said route set means from said map information memory means; and

        transmission means for transmitting to said terminal unit the route information set by said route set

means and the map information retrieved by said retrieval means for display on said display means of said terminal unit.

20. A computer data output unit for transmitting a specified signal to a computer for transmitting information and receiving a response signal of said information, provided with:

an image data base for storing a plurality of the prepared image information regarding people's countenance;

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image detection means for detecting image;

image retrieval means for retrieving from said image data base the image information regarding the people's countenance of the image similar to the image detected by said image detection means; and

retrieval signal output means for transmitting to said computer the signal corresponding to the image information regarding the substantially similar people's countenance.

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21. An image information transmission unit provided with:

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pen input means able to enter character or drawing information by operating a pen;

conversion means for converting the character information entered by said pen input means into a specified code;

designation means for designating that the information entered by said pen input means is a facsimile number; and

transmission means for transmitting the character or

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drawing information entered by said pen input means or the code converted by said conversion means, based on the facsimile number of an addressee designated by said designation means.

22. A pen input unit provided with:

pen input means able to enter character or drawing information by operating a pen;

display means for displaying the character information entered by said pen input means; and

display control means for compressing the previously entered characters if the number of characters to be displayed on said display means exceeds the predetermined number of characters and displaying a newly entered character in an uncompressed condition.

23. A wireless communication unit provided with:

wireless communication means wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel;

call means having a transmitter and receiver for making a call via said wireless communication means;

message memory means for storing a plurality of predetermined message;

message selection means for selecting the desired message from a plurality of message stored in said message memory means;

phonetic processor for transmitting a phonetic signal corresponding to the message selected by said message

~~selection means; and~~

~~transmission control means for transmitting the phonetic signal output from said phonetic processor via said wireless communication means, not via said call means, when message is selected by said message selection means.~~

24. The wireless communication unit according to claim 23 further provided with:

message input means for entering message as character data; and

conversion means for converting the message entered via said message input means into a phonetic signal, in which

said transmission control means transmits the phonetic signal converted by said conversion means via said wireless communication means.

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25. A wireless communication unit provided with:

wireless communication means wirelessly connected to a public communication channel for transmitting or receiving via said public communication channel;

character data conversion means for converting the phonetic signal received by said wireless communication means into character data;

display means for displaying the character data converted by said character data conversion means;

input means for entering the transmission content to transmit as character data;

phonetic signal conversion means for converting the character data entered from said input means into a phonetic

~~signal, and~~

~~transmission control means for transmitting the phonetic signal converted by said phonetic signal conversion means via said wireless communication means.~~

26. A current position guide unit provided with:

~~place name memory means for storing a plurality of position data and the place name data corresponding to respective position data;~~

~~position detection means for detecting the current position using GPS;~~

~~retrieval means for retrieving place name data corresponding to the position data from said memory means in response to detection of the current position of said position detection means; and~~

~~phonetic guide means for guiding with voice the place name data retrieved by said retrieval means.~~